Approved for use through 9/30/2000. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE silection of information unless it displays a valid OMB control number

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| FEE TRANSMITTAL Patent fees are subject to annual revision. | | | | | | | | Complete If Known | | | | | | |
| | | | | | | | | lication | Numb | er | 08/931125 | | | |
| | | | | | | | | g Date | | | 16 September 1997 | | | |
| | | | | | | | First Named Inventor | | | | .Hae-Seung LEE | | | |
| | | | | | | | Examiner Name | | | | Gary PORTKA | | | |
| | | | | | | | | up/Art U | | | 2187 | | | |
| TOTAL MICHIEL OF CANADATA | | | | | | | | <u> </u> | | | | | | |
| METHOD OF PAYMENT (\$) 86.00 | | | | | | | | Attorney Docket No. P54508 FEE CALCULATION (continued) | | | | | IVE | |
| 1.1 | | | | sioner is hereby | | | y 3 | ADDITIO | NAI F | | EE CALCULATION (CONTINUE | | - 0004 | |
| | | deficie | ncy and | d credit any over I | payments to | | 1 | | | | | APR 2 | 8 2004 | |
| - | | ccount | | | 4943 | | Large Entity Small Entity | | | _ | Fee Desc Technology Center 2 | | | |
| реро. | SIL A | Scount | Huili | <u> </u> | | | Fee Code | | | Fee (\$) | Fee Description Tology Competers | | | |
| | | e Any A | ddition | al Fee Required l | Jnder 37 C.I | F.R. §1.16 and | 1051 | 130 | 2051 | | Surcharge-late filing fee or oath | | Š | |
| 1.17. Applicant claims small entity status. See 37 CFR 1.27 | | | | | | | | 50 | 2052 | 25 | Surcharge-late provisional filing f | ee or cover she | eet \$ | |
| | | | | | | | 1052 1053 | 130 | 1053 | 130 | Non-English specification | | \$ * | |
| 2. ■ | Pa | ymen | ıt En | closed: | | | 1812 | 2,520 | 1812 | 2,520 | For fling a request for reexaminate | tion | \$ | |
| _ | | _ | • | IECK #4554 | • | _ | 1804 | 920* | 1804 | 920* | Requesting publication of SIR | prior to Exam | niner | |
| | Chec | k 🗆 | | Card 🔲 Mon | | Other | | | | | action | | \$ | |
| | | | | CALCULATIO | ON | | 1805 | 1,840 * | 1805 | 1,840* | Requesting publication of SIR aft | | | |
| | | FILING | | | | | 1251 | 110 | 2251 | 55 | Extension for reply within first mo | | \$ | |
| | | Small | _ | | | | 1252 | 420 | 2252 | 210 | Extension for reply within second | | \$ | |
| Fee ode | Fee (\$) | Fee Code | Fee (\$) | Fee Descr | ription | Fee Paid | 1253 | 950 | 2253 | 475 | Extension for reply within third me | | \$ | |
| | | | | | | | 1254 | 1,480 | 2254 | 740 | Extension for reply within fourth n | | \$ | |
| 001 | 770 | 2001 | 385 | Utility filing fee | | \$ | 1255 | · | 2255 | 1,005 | Extension for reply within fifth mo | กเท | \$ | |
| 002 | 340 | 2002 | 170 | Design filing fee | | \$ | 1401 | 330 | 2401 | 165 | Notice of Appeal | | \$ | |
| 003 | 530 | 2003 | 265 | Plant filing fee | | \$ | 1402 | 330 | 2402 | 165 | Filing a brief in support of an app | eai | \$ | |
| 004 | 770 | 2004 | 385 | Reissue filing fe | | \$ | 1403 | 290 | 2403 | 145 | Request for oral hearing | | \$ | |
| 005 | 160 | 2005 | 80 | Provisional filing | | \$ | 1451 | 1,510 | 1451 | 1,510 | Petition to institute a public use p | roceeding | \$ | |
| | | SUBTO | | | (\$) <u>.00</u> | _ | 1452 | | 2452 | 55 | Petition to revive - unavoidable | | \$ | |
| 2. E | XTRA | CLAIM | FEES | | | | 1453 | 1,330 | 2453 | 665 | Petition to revive - unintentional | | \$ | |
| | | | | Extra Claims | Fee from below | Fee Paid | | 1,330 | 2501 | 665 | Utility issue fee (or reissue) | | \$ | |
| | | | | | Delow | raiu | 1502 | 480 | 2502 | 240 | Design issue fee | | \$ | |
| otal cla | | | -20*1 | | | = | 1503 | 640 | 2503 | 320 | Plant issue fee | | \$ | |
| dependent - 3** = 1 x 86.00 = 86.00 aims | | | | 1460 | 130 | 1460 | 130 | Petitions to the Commissioner \$ | | | | | | |
| | _ | | | | | | 1807 1806 | | 1807 | 50 | Processing fee for provisional ap | | \$ | |
| Multiple Dependent = | | | | | | | | 180 | 1806 | 180 | Submission of Information Disclo | | | |
| ** or number previously paid, if greater; For Reissues, see below Large Entity Small Entity | | | | | | | 8021 | 40 | 8021 | 40 | Recording each patent assignme (Times number of properties) | nt per property | \$ | |
| arge d Fee Code | Fee | Fee | Fee | Fee | e Description | on | 1809 | 770 | 2809 | 385 | Filing a submission after final reje (37 C.F.R. §1.129(a)) | ection | \$ | |
| 1201 | (\$) 86 | 2201 | (\$) 43 | Independent cl | aims in exc | ess of 3 | 1810 | 770 | 2810 | 385 | For each additional invention to b | oe examined | * | |
| 1202 | 18 | 2202 | 9 | Claims in exces | | | | | | | (37 C.F.R. §1.129(b)) | | \$ | |
| 1203 | 290 | 2203 | 145 | Multiple depen | dent claim, | if not paid | 1801 | 770 | 2801 | 385 | Request for Continued Examinat | ion (RCE) | \$ | |
| íŠĢi | 86 | 2204 | 43 | ** Reissue independent claims over original patent | | | Other | Fee (spe | ecify) _ | | | | \$ | |
| 1205 | - · | | | | | | | Fee (spe | | | | | \$ | |
| | 9 | SUBTO | DTAL | . (2) | s) <u>86.0</u> | 0 | ** R | educed | by Ba | asic Fi | ling Fee Paid | | | |
| | | | | | | | 1 | | | | SUBTOTAL (3) \$.00 | | | |
| | | | | SUE | BMITTED | BY | | | | _ | Complete (if applicable) | | | |
| Typed or Printed Name Robert E. Bushn | | | | | | | | sq. | | | Reg. Number | 27,774 | 4 | |
| Signature The See huse D | | | | | | | Date | 2 | 3 Apri | 1 2004 | Deposit Account User ID | | | |

REB/kf



PATENT P54508

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

HAE-SEUNG LEE

Serial No.:

08/931,125

Examiner:

PORTKA, GARY

Filed: 16 September 1997

Art Unit:

2187

For:

INPUT/OUTPUT MEMORY **SYSTEM FOR IMPROVING DATA** PERFORMANCE AND METHOD OF CACHING DATA RECOVERY

INFORMATION

AMENDMENT

APR 2 8 2004

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 Technology Center 2100

Paper No. 50

Sir:

In response to the non-final Office action mailed on 25 February 2004 (Paper No. 49), entry of the following amendments, remarks, reconsideration and re-examination are respectfully requested.

04/26/2004 EFLORES 00000082 08931125

01 FC:1201

86.00 OP

Folio: P54508 Date: 4/23/04 I.D.: REB/JGS/kf